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Attachment
IAC-D-81/14.17
30 April 1958

GUIDED MISSILE INTELLIGENCE COMMITTEE

21 April 1958

MEMORANDUM FOR : Chairman, Intelligence Advisory Committee

SUBJECT : US Equipment for a USSR Earth Satellite

1. In response to your oral request, the Guided Missile Intelligence Committee (GMIC) has investigated the intelligence desirability of providing the USSR with a Naval Research Laboratory (NRL) designed mass spectrograph for use in a Soviet earth satellite.
2. As part of the International Geophysical Year Conference in September and early October 1957, the Soviet delegation was shown at NRL a small unclassified mass spectrograph that could obtain data on the lighter elements. This delegation indicated interest in obtaining one of the instruments for use in an earth satellite, even to the point of suggesting that its designer go to Russia to help install it. There has been, subsequently, an exchange of several personal letters on this subject.
3. Whether this proposal is technically an "exchange" is conjectural, since we are providing the equipment without a promise of equivalent equipment in return.
4. From an intelligence viewpoint the US could not lose. The unclassified equipment and its functions have already been described to competent Soviets. On the other hand, in the mere negotiations we should obtain names of associated personalities, P.O. Box numbers and possibly reference to factories or locations. If the next phase materializes, (i. e., the designer installing the equipment in a Sputnik at a location other than the launching site), we should gain some valuable information concerning the details of a future Soviet earth satellite, i. e., structure, weight, experiments, state-of-the-art, telemetry frequencies. The final possible phase (actually installing and checking-out the mass spectrograph while at the launching site)

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would have unlimited possibilities for intelligence. It is doubted that this final phase would be agreed to by the Soviets, but the previous phase is relatively reasonable.

5. The future developments which might emerge from further discussions cannot be predicted at this time. Hence, careful monitoring by some IAC Committee(s) is indicated.

6. It is the strong recommendation of GMIC that the proposal to provide the USSR with a mass spectrograph for an earth satellite be expedited in order to obtain necessary intelligence data. It is further recommended that the IAC designate committee(s) to monitor the future development of this proposal.

/s/
EARL McFARLAND, JR.
Colonel, USAF
Chairman, GMIC

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